OCT 07 2005 PART O TRADEMO

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

10/805,499

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Application Number

	NOMIT I AL		Filing Date	04			
l	FORM		First Named Inventor	Akiyoshi	AOYAGI		
(to be used for all correspondence after initial filing)			Art Unit	2814	2814		
			Examiner Name	Brian Kur	Brian Kunzer		
Total Number of Page	s in This Submission		Attorney Docket Number	9319S-00	00701		
		ENCLO	SURES (check all that apply)			
Fee Transmittal F	om	☐ Drawin	g(s)		Allowance Communication to ology Center (TC)	0	
Fee Attached	I	Licensi	ng-related Papers	Appea Appea	I Communication to Board o	of	
Amendment / Rep	oly	Petition	ו		I Communication to TC Il Notice, Brief, Reply Brief)		
After Final			n to Convert to a onal Application	Proprie	etary Information		
Affidavits/dec	laration(s)		of Attorney, Revocation e of Correspondence Address	☐ Status	Letter		
Extension of Time	e Request	☐ Termin	al Disclaimer		Other Enclosure(s) (please identify below):		
Express Abandonment Request			st for Refund umber of CD(s)	Pa	HDP 1449 Form; One (1) Foreig Patent Reference; Return Postcard		
Information Disclo	osure Statement						
Certified Copy of Document(s)	Priority	Rema	rks				
Response to Miss Incomplete Applic	sing Parts/ cation						
Response to Parts under 3 1.52 or 1.53							
	SIGNA	TURE OF A	APPLICANT, ATTORNEY,	OR AGENT			
Firm or Individual name Harness, Dickey & Pierce, P.L.C			Attorney Name G. Gregory Schivley / Bryant E. Wade		eg. No. 7,382 / 40,344		
Signature							
Date October 7, 2005							
	C	ERTIFICAT	TE OF TRANSMISSION/M	AILING		=	
I hereby certify that the Service with sufficier Alexandria, VA 22313	nt postage as first o	class mail in	simile transmitted to the USPT an envelope addressed to:	O or deposited Commissioner	with the United States Po for Patents, P.O. Box 14	stal 50,	
Typed or printed nam	e G. Gregory Se	chryley//Brya	int E. Wade	Express Mail Label No.	EV 717 344 888 US		
Signature	/.	1/hex	2/ Clever	Date	October 7, 2005		
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This collection of information is required by 37 CFR 1.5. The information is required to obtain or retained benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S. 127 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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OIP	FEE TRANSMITTAL	Complete if Know			
	FEE TRANSMITTAL	Application Number	10/805,499		
S OCT 07 2	ທຣ & for FY 2005	Filing Date	03/19/2004		
		First Named Inventor	Akiyoshi AOYAGI		
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Ellective 10/01/2004. Patern rees are subject to annual revision.	Examiner Name	Brian Kunzer		
MADEMAR	Applicant claims small entity status. See 37 CFR 1.27	Art Unit	2814		
	TOTAL AMOUNT OF PAYMENT (\$) 180	Attorney Docket No.	9319S-000701		
PATENTA PADEMAR	Effective 10/01/2004. Patent fees are subject to annual revision. Applicant claims small entity status. See 37 CFR 1.27	First Named Inventor Examiner Name Art Unit	Akiyoshi AOYAGI Brian Kunzer 2814		

METHOD OF PAYMENT (check all that apply)						ļ				ALCULATION (co	ontinued)			
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SUBMITTED BY				1							Com	plete (if applicable)		
		G. Gregor	y Schivley	$//\Box$	Registration Ma)		$\overline{\lambda}$	_					
Name (Print/Type)	E	Bryant E.	Wade 4	1	Registration No (Attorney/Ager	b_/	/	/ 27,3	382 / 40,3	44	Telephone	(248) 641-1600		

Signature October 7, 2005

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

polication No.:

10/805,499

Filing Date:

03/19/2004

Applicant:

Akiyoshi AOYAGI

Group Art Unit:

2814

Examiner:

Brian Kunzer

Title:

SEMICONDUCTOR DEVICE, ELECTRONIC PACKAGE.

ELECTRONIC DEVICE, ELECTRONIC APPARATUS,

Attorney Docket:

9319S-000701

Director of the United States Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

I. <u>LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION</u>

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

II. COPIES

A. Submitted herewith is a legible copy of (i) each foreign patent; (ii) each publication or that portion which caused it to be listed, other than U.S. patents and U.S. patent application publications unless required by the Office; (iii) each unpublished U.S. application listed below in Section IV (i.e., including the specification, claims, and any drawing of the application, or that portion of the application which caused it to be listed, including any claims directed to that portion), except for such applications filed on or after June 30, 2003, pursuant to the Waiver of the Copy Requirement in 37 C.F.R. 1.98 (OG Notice dated October 19, 2004); and (iv) all other information or that portion which caused it to be listed.

B. Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were

previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Filing Date

U.S. Serial Number

C. This is a PCT application United States. A copy of the I Examiner's information. The report are listed on the attached and for listing on any patent respect to these references should have be agreement and are believed to (MPEP 1893.03(g).)	nternational Search R documents listed on t d Form 1449 for consid sulting from this applica S, EPO, or JPO searce een supplied to the US	eport is attached for the the International Search deration by the Examiner ation. If the International ch authorities, copies of SPTO under the trilateral
CONCISE EXPLANATION OF	THE RELEVANCE (ch	eck <u>at least</u> one box)
A. Except as may be indicated or other information are in the required).	ted below in (B), all of e English language (d	the patents, publications concise explanation not
B. A concise explanation of other information listed that is 137 C.F.R. § 1.98(a)(3)):	f the relevance of eac not in the English lang	ch patent, publication or guage is as follows (see
1. ☐See the attached for related foreign application		nmunication regarding a
 English translation attached Form 144 	ns are provided as fo 19.	ollows: As indicated on
3. Other:		
C. The following additional consideration:	information is provid	ded for the Examiner's
CROSS REFERENCE TO RELA	ATED APPLICATION(S	<u>S)</u>
A. The Examiner is advised contain(s) subject matter that in bringing this(these) application does (do) not waive the confider	nay be related to the [(s) to the Examiner's	present application. By attention, Applicant(s)
Serial No. Fil	ing Date	Art Unit

III.

IV.

	THIS IDS IS BEING FILED UNDER
	A.
	1. within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.
	2. within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.
	3. before the mailing of a first Office Action on the merits (37 C.F.R § 1.97(b)(3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below; or, if no certification has been made, charge our deposit account a fee in the amount of \$180.00 as required by 37 C.F.R. § 1.17(p).
	4. Defore the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee of certification is required.
	B. 37 C.F.R. § 1.97(c): (check <u>only</u> one box)
	before the mailing date of either any Final Office Action under 37 C.F.R § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.
	1. \boxtimes No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
	2. See the certification below. No fee is required.
	C. 37 C.F.R. § 1.97(d):
	after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.
	1. See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).
١.	CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)
	The undersigned hereby certifies that:
	A. each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application

Serial No.10/805,499

not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or B.

no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application. and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)). C. some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS. VII. STATEMENT UNDER 37 C.F.R. 1.704(d) The undersigned hereby states that: each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS. VIII. PAYMENT OF FEES (check only one box) A. A check in the amount of \$180.00 is enclosed for the above identified fee. B. Please charge Deposit Account No. 50-3213 in the amount of \$180.00 for the above-indicated fee. The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 50-3213 (Epson R&D).

Disclosure Statement shall not be construed as a representation that a search has

been made.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 50-3213 (Epson R&D).

Respectfully submitted,

Dated: October 7, 2005

G. Gregory Schlyle

Reg/No. 27,582 Bryant E. Wade Reg. No. 40,344

Harness, Dickey & Pierce, P.L.C. P.O. Box 828 Bloomfield Hills, Michigan 48303 (248) 641-1600

GGS/BEW/JAH



FORM POR-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 1 of 2

ATTORNEY DOCKET No.	SERIAL NO.		
9319S-000701	10/805,499		
APPLICANT			
Akiyoshi AOYAGI			
FILING DATE	GROUP		
03/19/2004	2814		

U.S. PATENT DOCUMENTS									
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date			
1.		6,023,097	02/08/2000	Chiang et al.					
2.		6,025,650	02/15/2000	Tsuji et al.					
3.		6,034,425	03/07/2000	Chiang et al.					
4.		6,288,445	09/22/2001	Kimura					
5.		2002/0017709	02/14/2002	Yanagisawa et al.					
6.		6,489,678	12/03/2002	Joshi					
7.		6,573,119	06/03/2003	Hirashima et al.					
8.		6,611,063	08/26/2003	Ichinose et al.					
9.		6,627,991	09/30/2003	Joshi					
10.		6,731,009	05/04/2004	Jones et al.					
11.		2004/0222510	11/11/2004	Aoyagi					
12.		2004/0238954	12/02/2004	Miyaji et al.					
13.		6,903,458	06/07/2005	Nathan					

FOREIGN PATENT DOCUMENTS								
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	* No	
1.		JP 10-340928	12/22/1998	JAPAN		Abstract		

Examiner:	Date Considered:

FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET No.	SERIAL NO.
9319S-000701	10/805,499
APPLICANT	
Akiyoshi AOYAGI	
FILING DATE	GROUP
03/19/2004	2814

OTHE	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)										
Ref. Desig.	Examiner's Initials										
1.										 	

*One or more of the English translation documents submitted herewith may be Abstracts only or partial machine created translations from the Japanese Patent Office. As such, the submitter does not necessarily vouch for their accuracy. Additional information may be obtained from the Japanese Patent Office web site at www.ipo.go.ip

Examiner:	Date Considered:	